

INTERNATIONAL SEARCH REPORT

International Application No
PCT/US2005/007015

| A. CLASSIFICATION OF SUBJECT MATTER IPC 7 A61K31/4439 A61K38/06 A61P1/04 A61K31/4704 | | |
|---|---|--|
| According to International Patent Classification (IPC) or to both national classification and IPC | | |
| B. FIELDS SEARCHED Minimum documentation searched (classification system followed by classification symbols) IPC 7 A61K A61P | | |
| Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched | | |
| Electronic data base consulted during the international search (name of data base and, where practical, search terms used) EPO-Internal, BIOSIS, WPI Data, PAJ, EMBASE | | |
| C. DOCUMENTS CONSIDERED TO BE RELEVANT | | |
| Category * | Citation of document, with indication, where appropriate, of the relevant passages | Relevant to claim No. - |
| X | DIETRICH C G ET AL: "ABC of oral bioavailability: Transporters as gatekeepers in the gut." GUT, vol. 52, no. 12, December 2003 (2003-12), pages 1788-1795, XP009051184 ISSN: 0017-5749 table 1 | 1-24 |
| X | PAULI-MAGNUS CHRISTIANE ET AL: "Interaction of omeprazole, lansoprazole and pantoprazole with P-glycoprotein" NAUNYN-SCHMIEDEBERG'S ARCHIVES OF PHARMACOLOGY, vol. 364, no. 6, December 2001 (2001-12), pages 551-557, XP002337738 ISSN: 0028-1298 figure 2 | 1,2,16 |
| -/-- | | |
| <input checked="" type="checkbox"/> Further documents are listed in the continuation of box C. <input type="checkbox"/> Patent family members are listed in annex. | | |
| * Special categories of cited documents : *A* document defining the general state of the art which is not considered to be of particular relevance *E* earlier document but published on or after the international filing date *L* document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified) *O* document referring to an oral disclosure, use, exhibition or other means *P* document published prior to the international filing date but later than the priority date claimed *T* later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention *X* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone *Y* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art. *&* document member of the same patent family | | |
| Date of the actual completion of the international search 25 July 2005 | | Date of mailing of the international search report 05/08/2005 |
| Name and mailing address of the ISA European Patent Office, P.B. 5818 Patentlaan 2 NL - 2280 HV Rijswijk Tel. (+31-70) 340-2040, Tx. 31 651 epo nl, Fax: (+31-70) 340-3016 | | Authorized officer Loher, F |

INTERNATIONAL SEARCH REPORT

International Application No
PCT/US2005/007015

| C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT | | |
|--|---|--|
| Category ° | Citation of document, with indication, where appropriate, of the relevant passages | Relevant to claim No. |
| X | <p>IM W B ET AL: "REVERSAL OF ANTISECRETORY ACTIVITY OF OMEPRAZOLE BY SULFHYDRYL COMPOUNDS IN ISOLATED RABBIT GASTRIC GLANDS"</p> <p>BIOCHIMICA ET BIOPHYSICA ACTA, vol. 845, no. 1, 1985, pages 54-59, XP002337739 ISSN: 0006-3002 figure 3</p> | <p>1,3,4,7, 9-11,13, 15-17, 19,20, 22,24</p> |
| X | <p>MORIYAMA YOSHINORI ET AL: "Evidence for a common binding site for omeprazole and N-ethylmaleimide in subunit A of chromaffin granule vacuolar-type H⁺-ATPase"</p> <p>BIOCHEMICAL AND BIOPHYSICAL RESEARCH COMMUNICATIONS, vol. 196, no. 2, 1993, pages 699-706, XP002337740 ISSN: 0006-291X table 1</p> | <p>1,3,4,7, 9-11,13, 15-17, 19,20, 22,24</p> |

INTERNATIONAL SEARCH REPORT

International application No.
PCT/US2005/007015

Box II Observations where certain claims were found unsearchable (Continuation of item 2 of first sheet)

This International Search Report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:

1. ☒ Claims Nos.:
because they relate to subject matter not required to be searched by this Authority, namely:

Although claims 1-15 are directed to a method of treatment of the human/animal body, the search has been carried out and based on the alleged effects of the composition.
2. ☐ Claims Nos.:
because they relate to parts of the International Application that do not comply with the prescribed requirements to such an extent that no meaningful International Search can be carried out, specifically:
3. ☐ Claims Nos.:
because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).

Box III Observations where unity of invention is lacking (Continuation of item 3 of first sheet)

This International Searching Authority found multiple inventions in this International application, as follows:

1. ☐ As all required additional search fees were timely paid by the applicant, this International Search Report covers all searchable claims.
2. ☐ As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
3. ☐ As only some of the required additional search fees were timely paid by the applicant, this International Search Report covers only those claims for which fees were paid, specifically claims Nos.:
4. ☐ No required additional search fees were timely paid by the applicant. Consequently, this International Search Report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:

Remark on Protest

- ☐ The additional search fees were accompanied by the applicant's protest.
- ☐ No protest accompanied the payment of additional search fees.